

## ABSTRACT

A production process of a perforated porous resin base, comprising Step 1 of impregnating the porous structure of a porous resin base with a liquid or solution; Step 2 of forming a solid substance from the liquid or solution impregnated; Step 3 of forming a plurality of perforations extending through from the first surface of the porous resin base having the solid substance within the porous structure to the second surface in the porous resin base; and Step 4 of melting or dissolving the solid substance to remove it from the interior of the porous structure, and a production process of a porous resin base with the inner wall surfaces of the perforations made conductive, comprising the step of selectively applying a catalyst only to the inner wall surfaces of the perforations to apply a conductive metal to the inner wall surfaces.